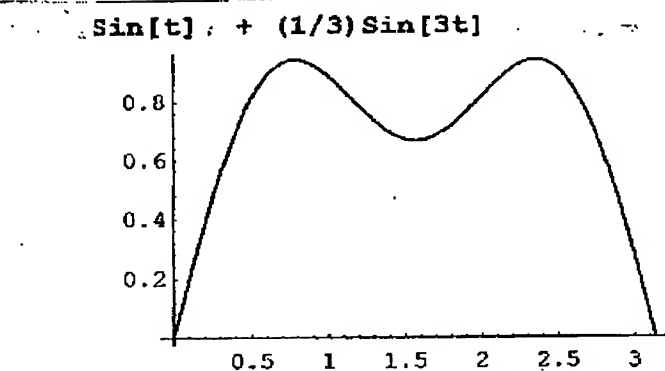
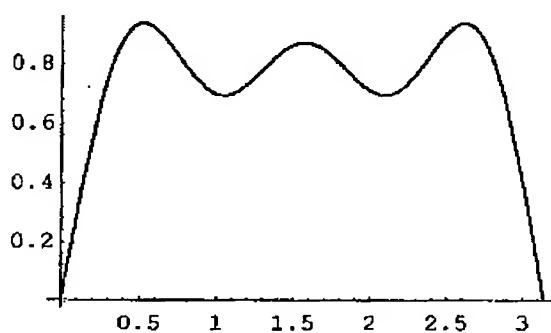


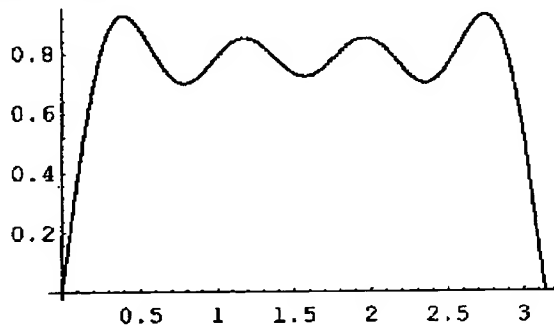
FILE 4



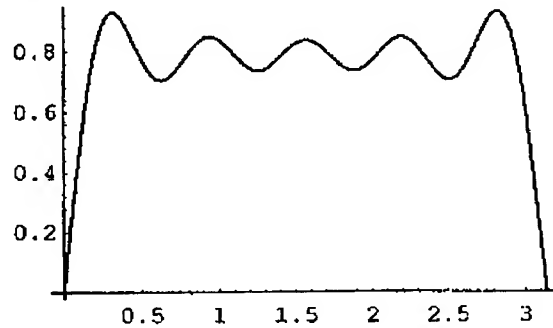
$\sin[t] + (1/3)\sin[3t] + (1/5)\sin[5t]$



$\sin[t] + (1/3)\sin[3t] + (1/5)\sin[5t] + (1/7)\sin[7t]$

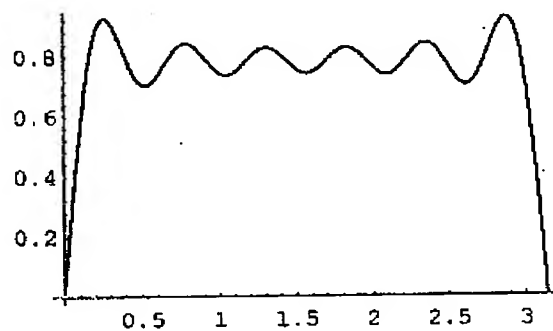


$$\sin[t] + (1/3)\sin[3t] + (1/5)\sin[5t] \\ + (1/7)\sin[7t] + (1/9)\sin[9t]$$



FILE 5

$$\sin[t] + (1/3)\sin[3t] + (1/5)\sin[5t] \\ + (1/7)\sin[7t] + (1/9)\sin[9t] + (1/11)\sin[11t]$$



$$\sin[t] + (1/3)\sin[3t] + (1/5)\sin[5t] \\ + (1/7)\sin[7t] + (1/9)\sin[9t] + (1/11)\sin[11t] \\ + (1/13)\sin[13t] + (1/15)\sin[15t] + (1/17)\sin[17t] \\ + (1/19)\sin[19t] + (1/21)\sin[21t] + (1/23)\sin[23t]$$

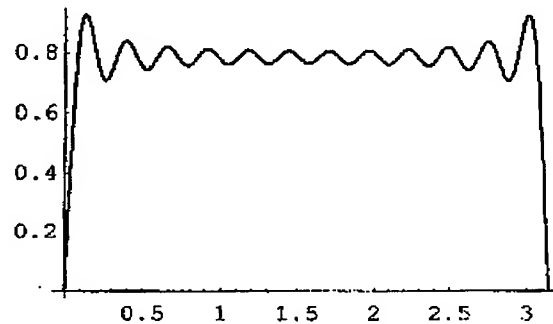


FIG 6

$$x(t) = \sum_{k=-\infty}^{\infty} c_k e^{jk\omega_0 t}$$

EQ. (1)

$$\omega_0 = 2\pi/T_0$$

EQ. (2)

$$c_k = A \frac{d}{T_0} \frac{\sin(k\omega_0 d/2)}{k\omega_0 d/2} e^{-jk\omega_0 d/2}$$

EQ. (3)

$$\text{FACT: } \exp(jt) = e^{jt}$$

$$\text{IF } d = T_0/4$$

$$\text{THEN } k\omega_0 d/2 = k\pi d/T_0 = k\pi/4$$

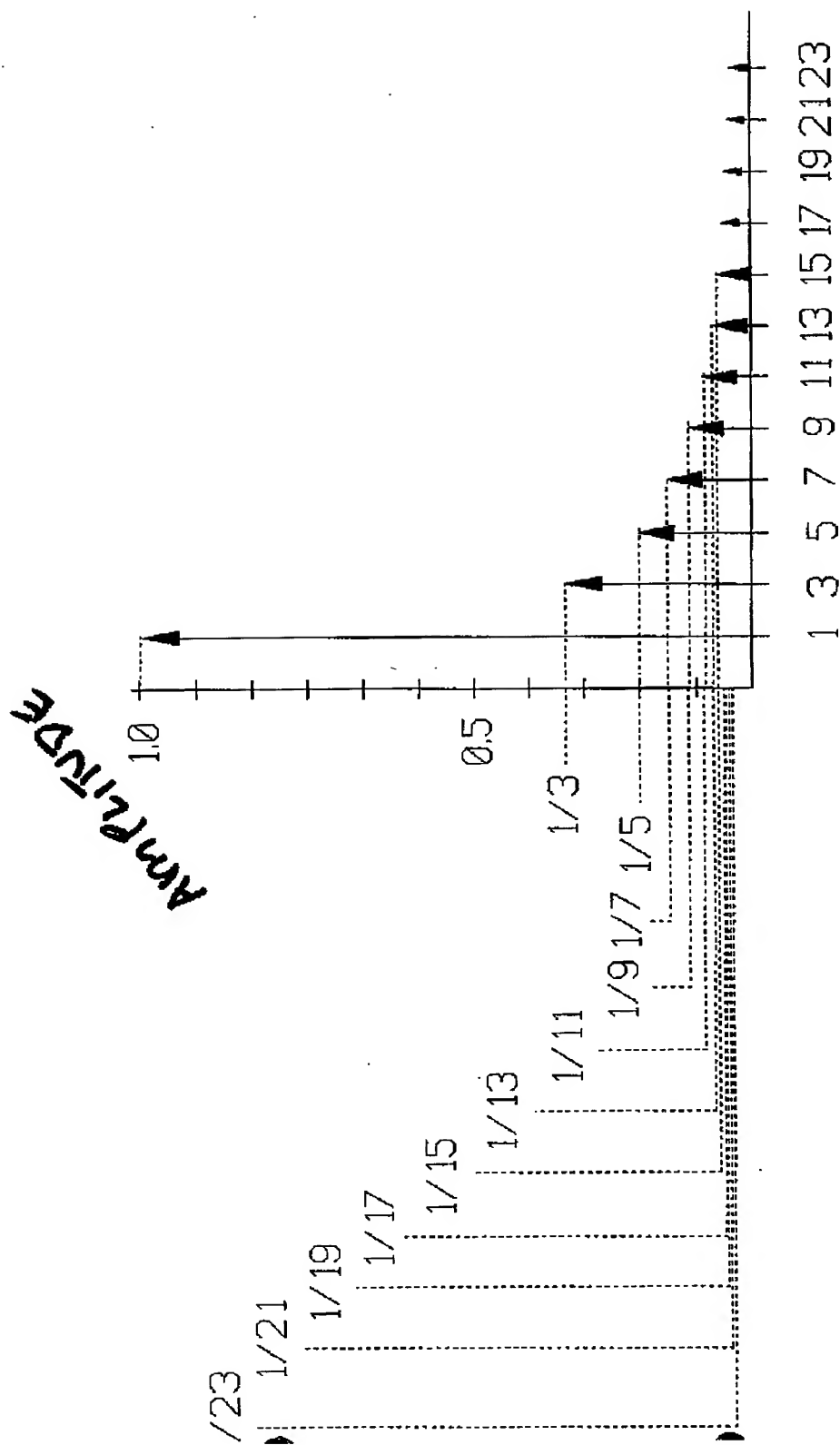
$$\text{THUS } e^{-jk\omega_0 d/2} = e^{-jk\pi/4} = -j \sin(k\pi/4) = +/-j$$

EQ. (5)

$$|c_k| = \frac{A}{4} \left| \frac{\sin(k\pi/4)}{k\pi/4} \right|$$

EQ. (6)

Fig 8



~~Fig 8~~
K

FIG 7

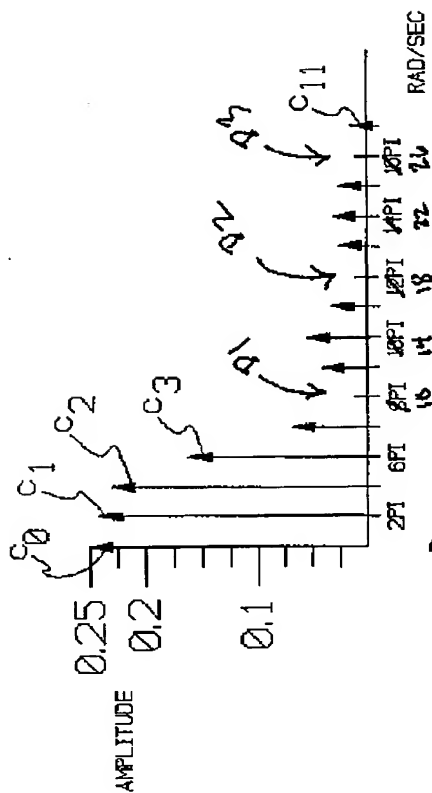


FIG 9

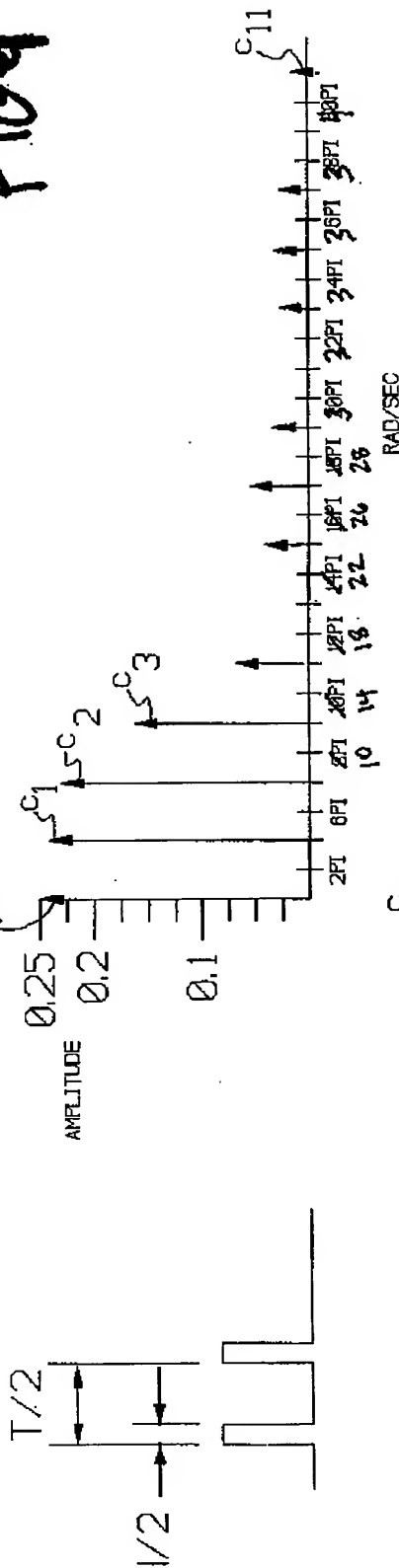


FIG 10

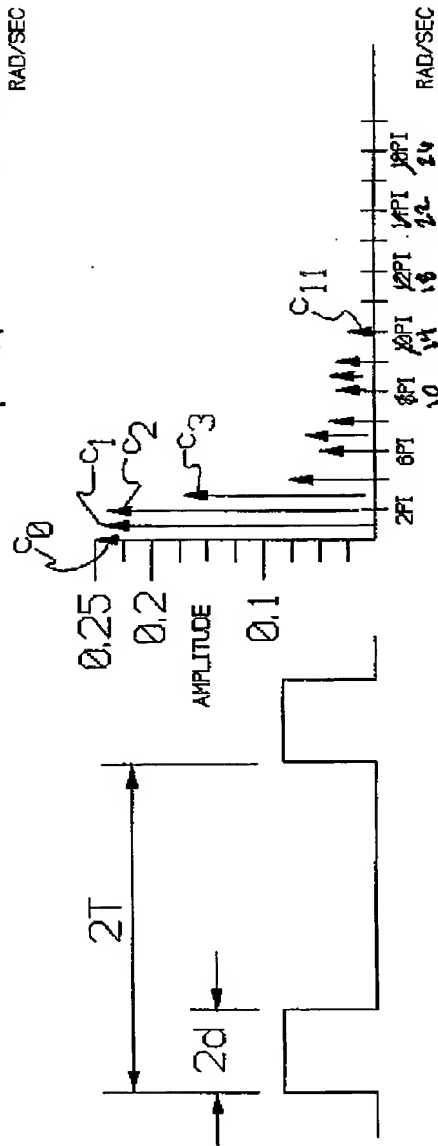
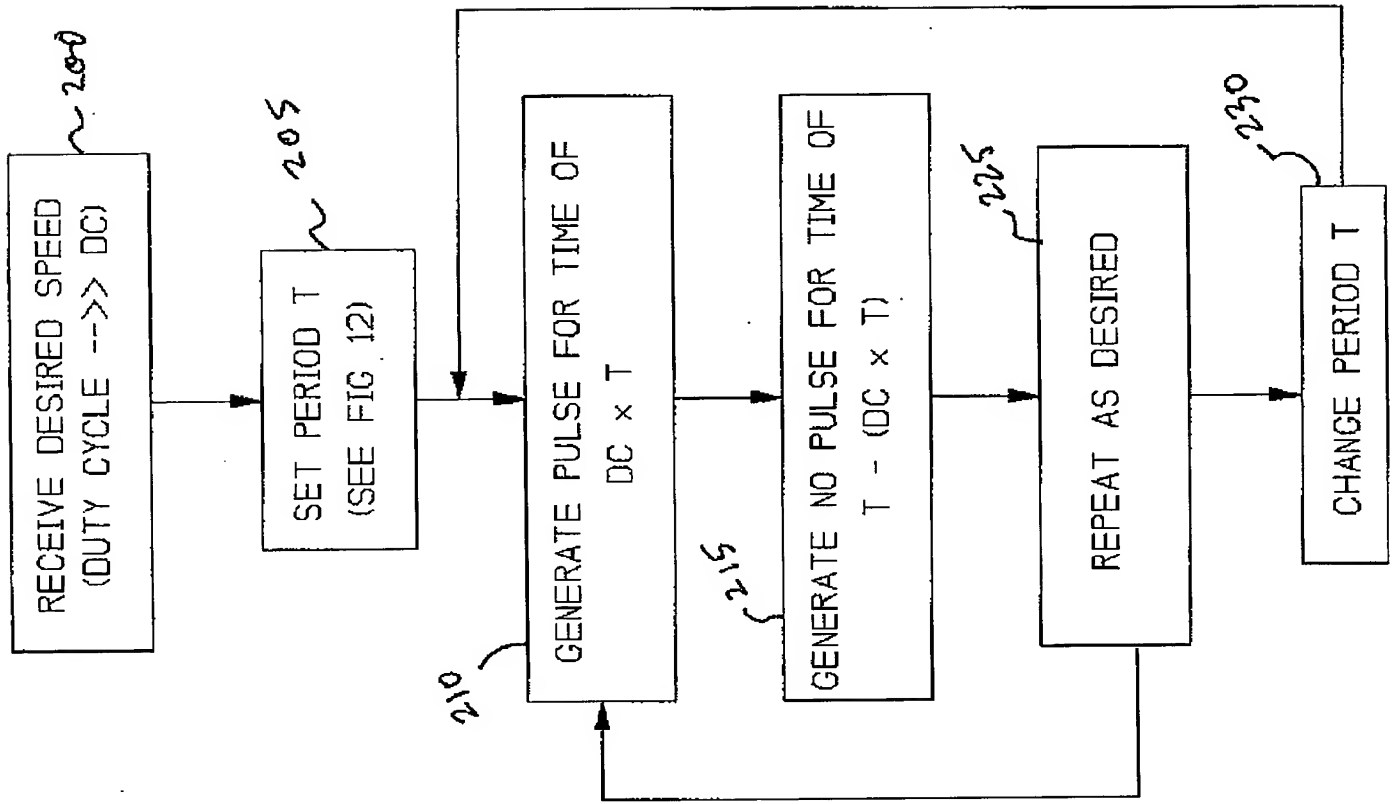


FIG 11



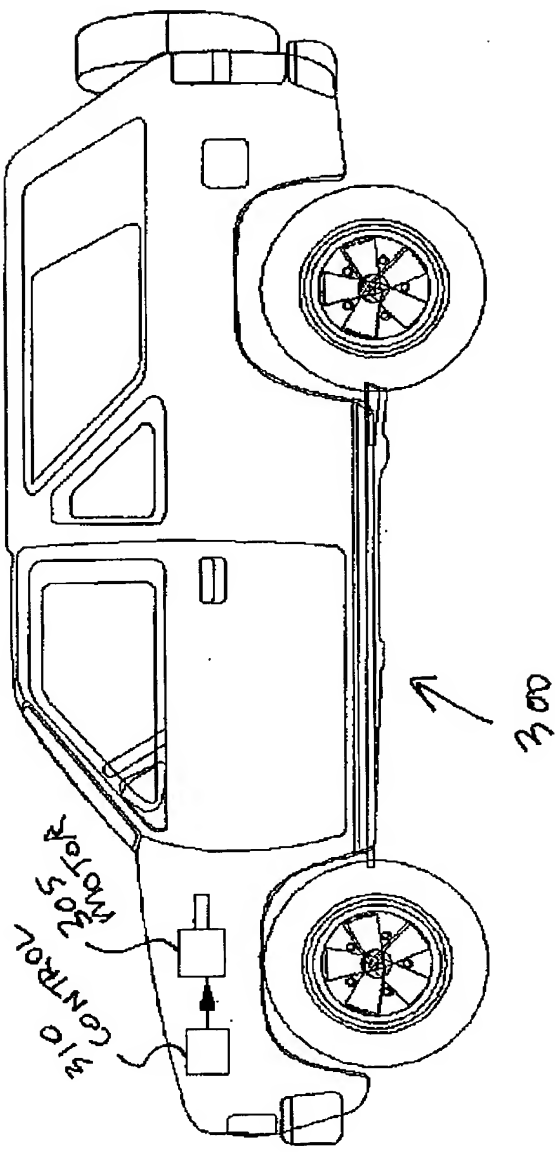


FIG 13

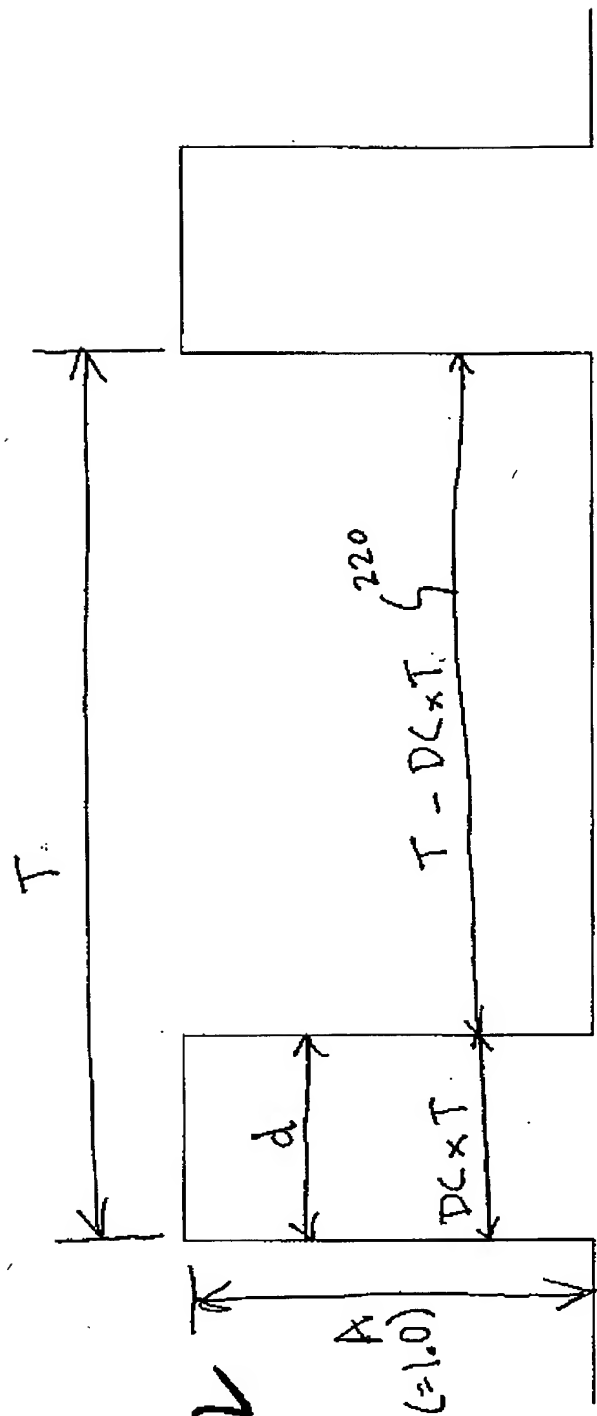


FIG 12